Decisions

- 1. Approve Aviation Objective Force Organizational Design
- 2. Approve RAH-66 Comanche as the Multi-Role Reconnaissance and Attack System for the Objective Force
- 3. Approve the Aviation Transformation Strategy and the Development of an Implementation Plan

Objective Force Recon/Attack Requirements

Required Capabilities

- Integrated C4ISR, System of Systems, for Sustained SU/SA
- Multi-Role Systems & Multi-Functional Units
- Manned/Unmanned Teaming for Recon /Attack Missions
- Armed, Manned Reconnaissance & Attack Systems for C2 Cognitive Decision-Making
- Agile, Survivable, Sustainable, Responsive Forces - Embedded in Organization and Platforms

inter peralting the AoA Study

Analytical underpinnings:

- Robust 2010 Threat
- Comanche vs LBA vs KW
- SWA / NEA / EUCOM scenarios
- Troop to CORP size forces
- Reconnaissance and attack missions
- Counter-Offensive, SASO, Advanced Cover, and Defense Interoperability,
 - ARI Force structure

Comanche Meets These Needs! LETHALITY
 Fires, Maneuver, Leadership,
 Force Protection
 Recon & ATK Multi-Role Units
 w/ Special Purpose

 Capabilities

SURVIVABILITY V LO, Ballistic Protection, Stand-

First Round Hit/Kill

DEPLOYABILITY
 Bde in 96 Hours, Div in 5 Days

5 Div in 30 Days

• AGILITY
SASO - to - MTW - to - SASO
C4ISR/Digitization

• SUSTAINABILITY
Reduce LOG Footprint & Supply
Demand-Diagnostics and Fewer
Maintenance Tasks

• RESPONSIVENESS
Highly Capable Force (Right Place/
Right Time), Joint
Interoperability

• VERSATILITY
Operational, Multi-Functional
Flexibility (Task Org), Joint
CInteroperability,
Technology Growth

Comanche -Reconnaissance Role



Situational Awareness

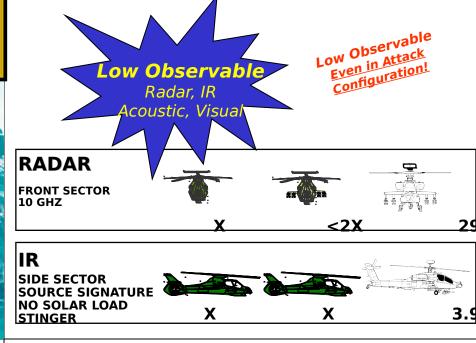
- COP Friendly & Enemy Positions
- Constantly updated tactical graphics
- On-board correlation of duplicate targets
- SU/SA Integration w/Sensors and C2 Nodes
- UAV feed into cockpit
- 2nd Generation FLIR
- Laser / Radar warning receivers
- Chemical detectors
- · Sentartius Experter unctien

SECURE VOICE

- VHF-FM/SINCGARS
- UHF/HAVEQUICK
- VHF-AM
- HF
- SATCOM
- Simultaneous Transmit
- 2 Voice, 1 Data
- Simultaneous
 - Receive 4 Voice, 1 Data

SECURE DIGITAL/DATA

- IDM JVMF
- EPLRs
- · LINK-16/TADIL-J



Combat Radius - Operational Deep



15 Minute Station Time - 20 Minute VFR Reserve, V_{BR} 250 km/hr

Keeps crew SA updated

Comanche -Attack Role

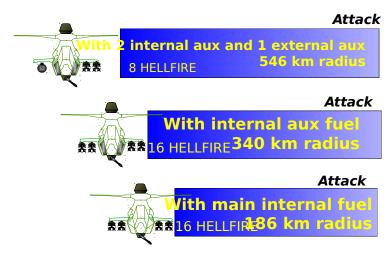


Weapon Sys	ster	ns			
		7. ·			
Low Observable Radar, IR Acoustic, Visual		CHICK!	Observi	able ack	
	MAX	EV CO Attack	Observi en in Att nfigurat Recon	MAX RANGE	
70 MM ROCKETS	76	. 0	4	9000m	
HELLFIRE (SAL/RF)	16	16	4	8000m	
20mm Gun	500	500	320	2000m	
Air-to-air missile	12	0	2	8000m	

Survivability

- Radar/Laser Warning
- Signature reduction
 Visual, Radar, IR, Aural
- Fire and Forget RF HELLFIRE Missile
- Ballistic Tolerant Components
- NBC filtered, pressurized cockpit
- Nitrogen Inerted Fuel Tanks
- Crashworthy Airframe and stroking gear/seats

Combat Radius - Decisive & Shaping O



15 Minute Station Time - 20 Minute VFR Reserve, V_{BR} 250 km/hr

Comanche Milestone II AoA Results



Force Effectiveness Impact

- ✓ Allowed battlefield commanders to MORE effectively utilize the Force to shape the battlespace and provided CDR with greater time to coordinate Forces actions
- ✓ Gave CDR the ability to seize the initiative
- Provided for more precise navigation and maneuvering
- ✓ Force with Comanche had greater effectiveness and survivability
- ✓ Comanche modernization potential critical to Army Aviation
- ✓ Provided large contribution to situational awareness and common operating picture (over alternatives)
- Provided large contribution to digital communication links to Army and Joint

Logistics Impact

- ✓ Comanche operational availability exceeded every alternative by at least 10%
- MTBMA (aborts), MTBMAF (mission affecting failures), MTBEMA (essential maintenance actions) all favored Comanche
- ✓ More able to achieve flying hrs requested in a high OPTEMPO situation than any other alternative (15% more than KW, 37% more than LBA)
- √ 80% fewer pieces of support equipment than KW
- √ 89% fewer pieces of support equipment than LBA
- Reliability parameters 14-40% greater than LBA
- Reliability parameters 1-70% greater than KW
- ✓ Total # of maintainers reduced by 18% vs NΩ Comanche alternative

Can RAH-66 Comanche perform successfully as the multi-role (both reconnaissance and attack) platform for the Objective Force?

Decision #2

RAH-66 as a Multi-Role Reconnaissance/Attack System

- Comanche Designed as a Multi-Role System
- TRAC Analysis Confirms Capability to Perform Both Missions Against Advanced Threat
- Increased Survivability in Both Recon and Attack Roles
- "Pure Fleeting" with Comanche Significantly Reduces Logistics Footprint
- Critical to Situational Understanding Across the Force

Recommendation: Approve RAH-66
Comanche as the Multi-Role
Reconnaissance and Attack System for
the Objective Force

Decisions

- 1. Approve Aviation Objective Force Organizational Design
- 2. Approve RAH-66 Comanche as the Multi-Role Reconnaissance and Attack System for the Objective Force
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 Strategy and the Development of an
 Implementation Plan

Facts

- Risk = A Function of Speed in Organizational Change, Feasibility of Manning, Availability of Combat Systems, and Capability of
 - **Institutional Training and Logistic Systems**
- Must Minimize Risk in the Counter-Offensive Force and in Korea
- Must Retain Air assault Capability in the 101st Air Assault,
 - 82nd Airborne and Light Infantry Divisions
- Must Resource the ARNG with AH-64/UH-60 Aircraft
- Must Divest Approximately 1800 Obsolete Aircraft
- Manning, Training and Logistics Requirements Increase During the

Transition

Assumptions

- First Objective Force Unit Fielded is FY 2010
- One Attack Battalion Inactivates in FY02
- Production Rates for Blackhawk and Comanche in FY02-07

POM and EPP will Remain Unchanged Or Increase

Recapitalization (Rebuild/Selective Upgrade)
 for Legacy

Aircraft will be Executed in FY 02-FY 10

 Reliability and Sustainability Task Force Initiatives will

Increase Reliability, Sustainability and

Warfighting Forces in Transition Forces:





CONTAINMENT



CONTINGENCY



NG DIVISIONS



IDIV

The Challenge:

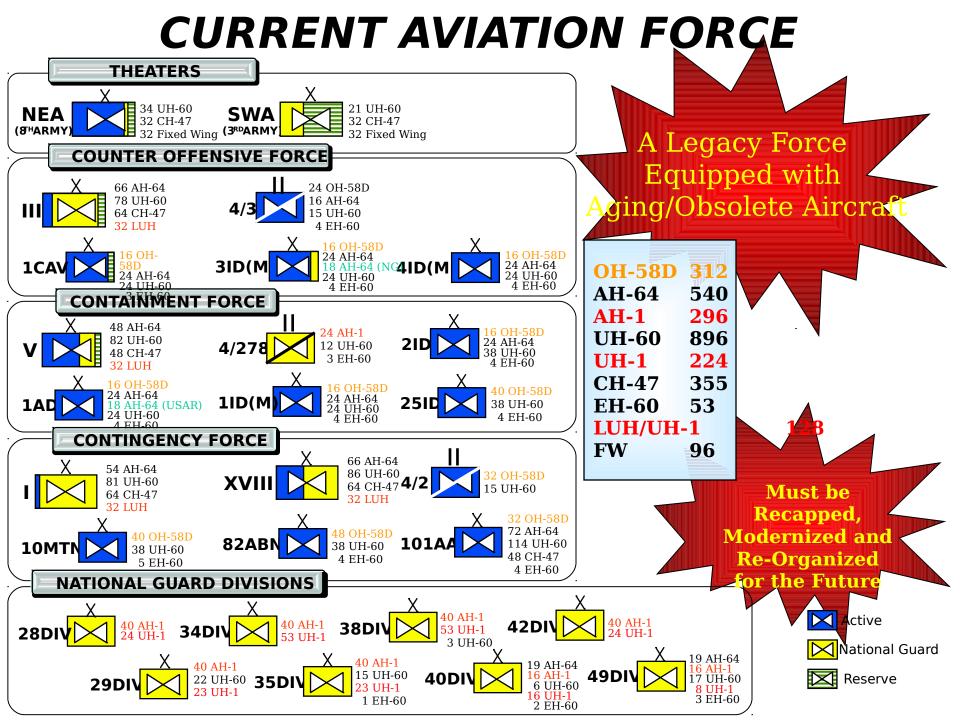
Meet the Operational Requirements of the Legacy Force and Interim Force while moving, as rapidly as Possible, to an Objective Force Capability.

Develop Future
Full Spectrum,
Multi-functional
Capabilities

Objective Force

Mitigate Risk in Implementation Strategy

Sustain Description Warfighting Capability



Transformation Strategy

- Deliberate Approach in Transition
- First to Fight Equipped with Most Capable Systems
- Prioritization of Resources and Combat Systems to Sustain Warfight
- Selected Units are Resourced at Less than Full Requirement
- Decrease Risk and Increase Relevancy of National Guard Divisions by Resourcing With Modernized Aircraft
- Reserve Units Resourced and Reorganized ICW Mission Alignment
- Continue Leader Development, Training, Logistics System, and

Object Bridge to Future Must Sustain Warfight

Transformation Strategy

Counter-Offensive Force:

- Retain ARI, Greater Lethality; Transitions to Objective Force Late
- Full Spectrum Capable by Task Organizing Optimized for MTW

Contingency Force:

- Sustain Current Capability in 101st Air Assault Division
- Retain 10th MTN and 82nd ABN in ARI Design Until RAH-66 Fielding
- Modernize 82nd ABN to RAH-66 Early
- 2 ACR will Change Based on On-Going Study, Fielded with Legacy Systems Until Comanche is Available

Containment Force:

- Early Transition to Multi-Functional Units with Legacy Equipment in Div
- Heavy Division w/LBA; Light Division w/ KW
- 2ID Retains ARI Organization
- Full Spectrum Capable, Corps Augmentation for Sustained MTW

National Guard Divisions:

- Multi-Functional Units with Legacy Equipment at Reduced Numbers
- Full Spectrum Capable

Training Base:

- Transition to Flight School XXI
- Divest, Sustain and Selective Upgrade of Capabilities

Counter Offensive Force Strategy_{Framework}



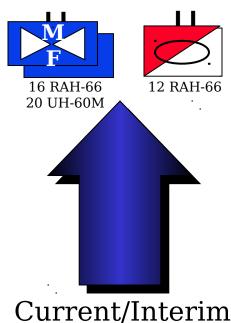












3x8 AH-64 4x8 UH-60 2x8 OH-58D

- Optimized for MTW Counter Attack
- Can Support Regional Engagement (SASO) in

Austere Conditions

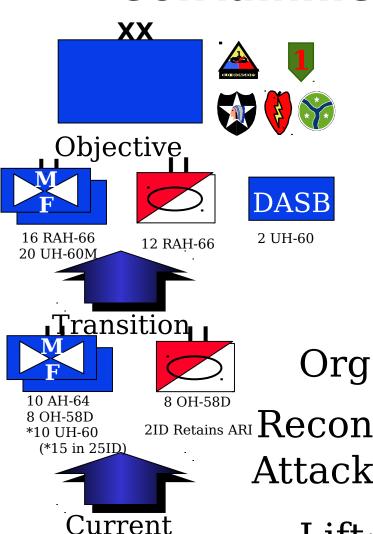
- Less Maneuver Units (-9 Company Teams) -**FXXI Design**
- Decisive Operations (Deep Ops, Mutual Support, Maneuver Support, AASLT)
- Force of Decision until Objective Force **Concept Matures**
- Digitized (FDD By FY 04; FDC By FY 05)
- Deploy By Sea and Air
- Last To Transform to Office tive Force (Period)
- Retain ARI, Greater Lethality; Transitions to Objective
- Sustain OH-58D (KW Not Digitized) Accept Risk Until
- allow On ic PAH 66 St THAY Must Convert O/A EV 12
- Upgrade to AH-64D Apply Recap As Soon As Possible
- Attack: 8 Per Company to Enable Deeps Ops, Maneuver Support, Security, Assured Lethality, Survivability



- UH-60L (Recap) Early Conversion to UH-60M for Digitization
- A2C2S Command and Control System; 4 per Brigade

Containment Force Strategy





3x8 AH-64*3x8 UH-602x8 OH-58D

(*2X15 UH-60 in 2ID/25ID)

- Regional Engagement (SASO) in Austere Conditions
- Optimized for Defense
- Less Maneuver Units (-9 Company Teams) LCD/FXXI
- Decisive Operations(Attack, Deep Ops, Maneuver

Support, AASLT)

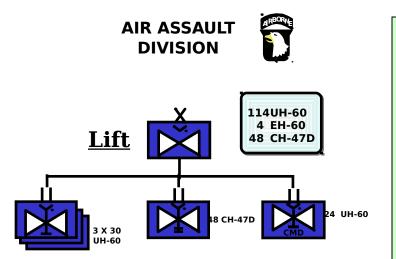
 Larger AOR - Contains Fight Until Follow-On Early

Deployers Arrigerategy

- Early Transition to Multi-Functional Units with Legacy Equipment in Div
- Heavy Division w/LBA; Light Division w/ KW
- 2ID Retains ARI Organization
- 2ID Retains ARI Recon: Sustain OH-58D (not digitized) Follow-On is RAH-66 &
 - Upgrade to AH-64D 20 Per Battalion AC 16 Per
 - Accuma Rick (Raduction of A AH-64 nor Division
 - Second priority for UH-60M (Recap) for Digitization Variety of Lift Missions
 - Retain Bn Asslt Capability in 25ID/2ID in Interim W/2 x 15 UH-60 Companies
 - A2C2S Command and Control System

Contingency Strategy Summary

Framework



- Tailored Counter Offensive/Containment Force
- Mission Quickly Resolve Conflict or Contain Threat

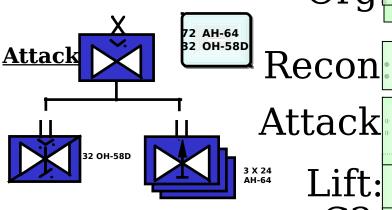
for Follow-On Counter Offensive Ops

 Decisive Operations (Attack, Deep Ops, Maneuver

Support, AASLT) - Specialized **Capabilities**

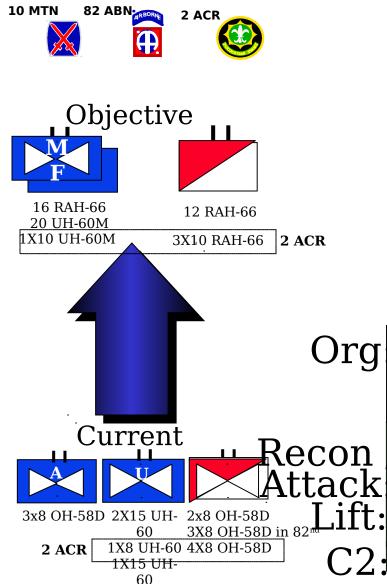
- Digitized C2 Nodes
- · Deploys By Air Strategy

- tain Current Capability in Air Assault Division
 - tains due Air Assault Capability



- Sustain OH-58D (Not Digitized)Follow-On is RAH-66 & TUAV
- **Upgrade to AH-64D with Recap**
- Deeps Ops, Air Assault Security, Security, Assured Lethality, Survivability
- UH-60M (Recap) for Digitization Air Assault, Air Movement
- CH 47F (Pocan) Air Accoult Air Movement
- **A2C2S Command and Control on the move**

(Con't) Framework



- Tailored Forced/Early Entry Forces
- Mission Quickly Resolve Conflict or Contain Threat

for Follow-on Counter Offensive Ops

 Decisive Operations (Attack, Maneuver Support,

AASLT)

- Digitized Recon/Attack with Conversion to Comanche
- Deploys Primarily by Air
- Optimized for SSC/SASO
- Retains Air Assatrategy bility Through Transition

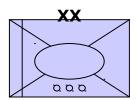
RAH-66 Fielding

- Full Spectrum Capable Modernize 82nd ABN to RAH-66 Early
- 2 ACR Transitions to Future Organization in FY04-08
- Multi-Role Platform for Recon/Attack Limited until RAH-66 Fielding
- Sustain OH-58D (KW Not Digitized)
- Follow-On is RAH-66 & TUAV Field Farly to 82nd / 10th
- MUH-60M (Recap) for Digitization Air Assault, Air Movement
- A2C2S Command and Control on the move

"Pre-Decisional"

Interim Division Force Strategy Framework

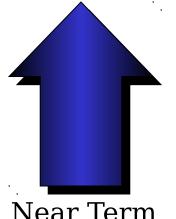
















RSTA OH-58D

Recon Air Cav

Optimized for SSC Offensive Operations

· SSC:

-Offensive Operations in Close, Complex Terrain

-Defensive Operations - Area and Mobile

• MTW:

-Follow and Support/Assume

-Augment from Corps for Shaping and

Decisive OPS

 Digitized - Limited Air Capability Until Fielded w/Comanche

Deploys By Air

 Division Decisive Force is Combination of BCT, AVN, & Fire Suppor

Multi-Functional Units with Legacy Equipment

Full Spectrum Capable

 Multi-Role Platform for Recon/Attack - Field with RAH-66 Early

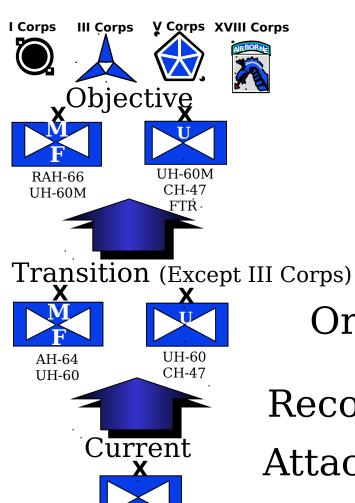
• Sustain OH-58D (KW Not Digitized) Accept Risk Until

 UH-60M (Recap) for Digitization - Variety of Lift Missions

A2C2S Command and Control on the move

Corps Strategy

Framework



UH-60

CH-47 LUH

AH-64

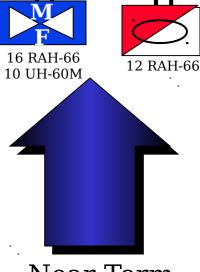
- Tailored Regional Engagement in **Austere Conditions**
- Warfighter/Force Provider
- Decisive Operations (Attack, Deep Ops)
- Sustainment Operations (Corps to Division)
- Large AOR
- Digitized (FDC By FY 05)
- Deploy By Sea and Air • Optimized for MT
- III Corps Retain ARI Structure Until Divisions **Transform to OBJ Force**
 - Avn Units Forward Deployed to Korea
- I/V/XVIII Corps Early Transition to Multi-Functional **Units with Legacy**
- AH-64 Retains Recon Role during Transition
 Follow-On is RAH-66 & TUAV/Armed UAV

- Upgrade to AH-64D, Retain Operational and Tactical Attack: Deep Capability
 - Assume Risk by Reduction of AH-64 in Corps (Except III
 - UH-60M (Recap) for Digitization Variety of Lift Missions, Augment Div
 - CH-47D Remains Medium Lift Capability With Upgrade
 - A2C2S Command and Control on the move

National Guard Division Strategy

Framework













8 OH-58C

- Recon Attack:

- Full Spectrum Focus, Trained and Equipped for Rotation, Augmentation, Reinforcement and Backfill
- Completes Objective Force Conversion in **Objective Force in 2017 2027 / First**
- Current Risk is Lack of Modernized AVN Systems in 8 DIV
- Must Support State Mission
- Two Divisions will Convert under ADRS NIT FY 12
- Deploys By Air geateav
- Multi-Functional Units with Legacy Equipment at **Reduced Numbers**
- Full Spectrum Capable
- Sustain OH-58D (Not Digitized)
- Follow-On is RAH-66 & TUAV or AH-64
- Field RAH-66 as Conversion to OBJ Force
- UH-60 Sustainment, Recap, Long Term Shortage
- •CH-47 Majority of Heavy Lift in RC Component Must **Reconcile Unit Size**

A2C2S Command and Control on the move

Decision #3

Approve the Aviation Transformation Strategy and the Development of an Implementation Plan

- Retains Warfighting Capability during the transitional period.
- Sets the Conditions Across DOTLMS for Conversion to Objective Force
- Meets the Operational Requirements of the Legacy Force and Interim Division
- Reduces Risk by Increasing National Guard Relevancy
- Postures Aviation For Army Transformation Timeline Recommendation: Approve the
 Aviation Transformation
 Strategy and the Development
 of an Implementation Plan